

# Nancy Creek Watershed Improvement Plan



## PUBLIC INPUT MEETING

SEPTEMBER 9, 2015

7:00 PM

LYNWOOD PARK

# Agenda

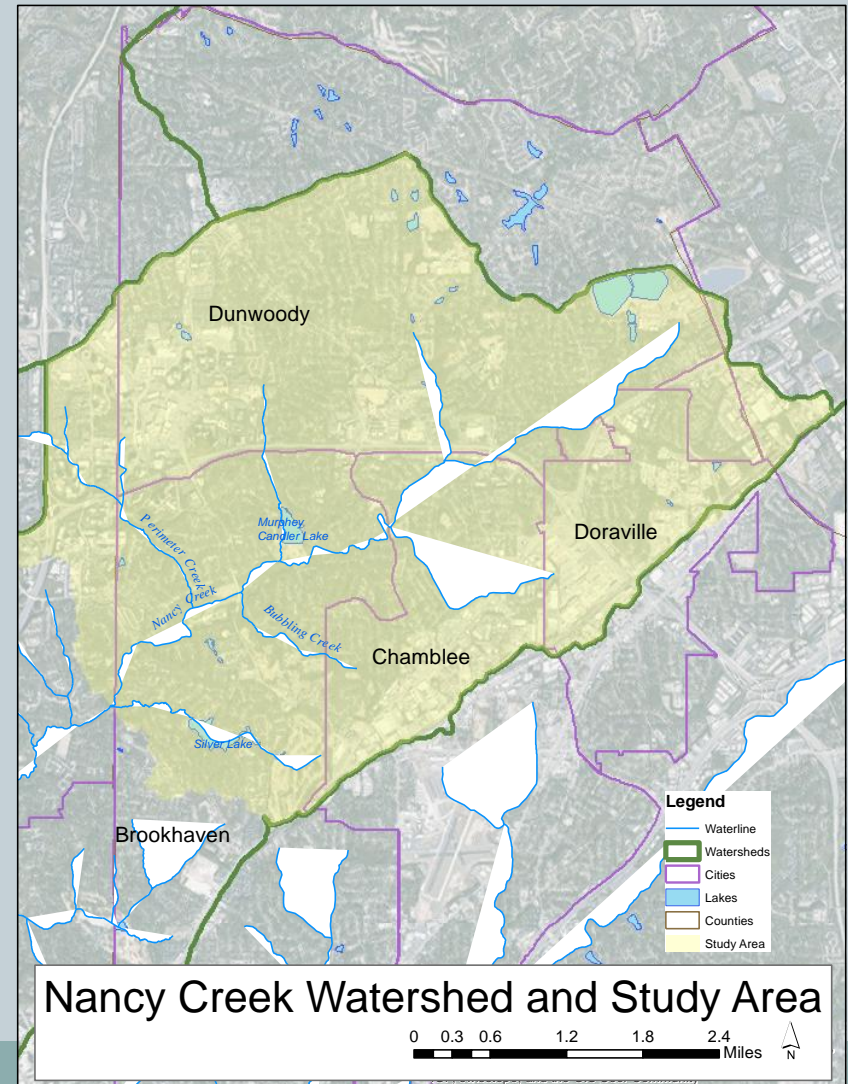


- Overview of the watershed
- Project overview
- Summary of watershed conditions
- Summary of Murphey Candler Lake conditions
- Next steps
- Public input opportunities

# Nancy Creek Watershed



- Originates near the DeKalb WTP, flows to the Chattahoochee River
- Crosses through 4 jurisdictions prior to Brookhaven
- About 40% of City is in the study area



# Project Overview



- Evaluate current watershed conditions, includes Murphey Candler Lake
- Identify action items to improve the watershed
- Develop a State of the Lake Report
- Develop a Watershed Improvement Plan
- Create a framework for state and federal funding requests

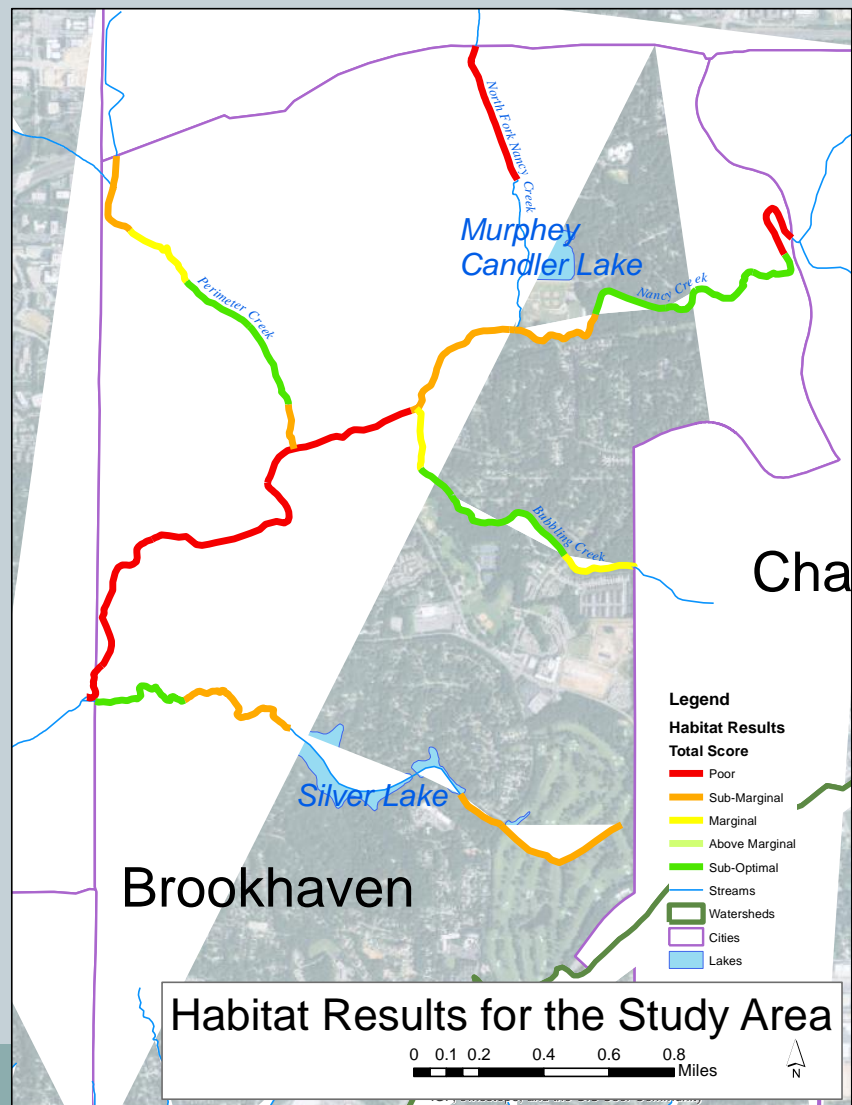
# Evaluate Watershed Conditions



- Stream Habitat
- Water Quality Data
- Drainage complaint data
- Floodplain data
- Preliminary watershed runoff model



# Stream Habitat Results Summary



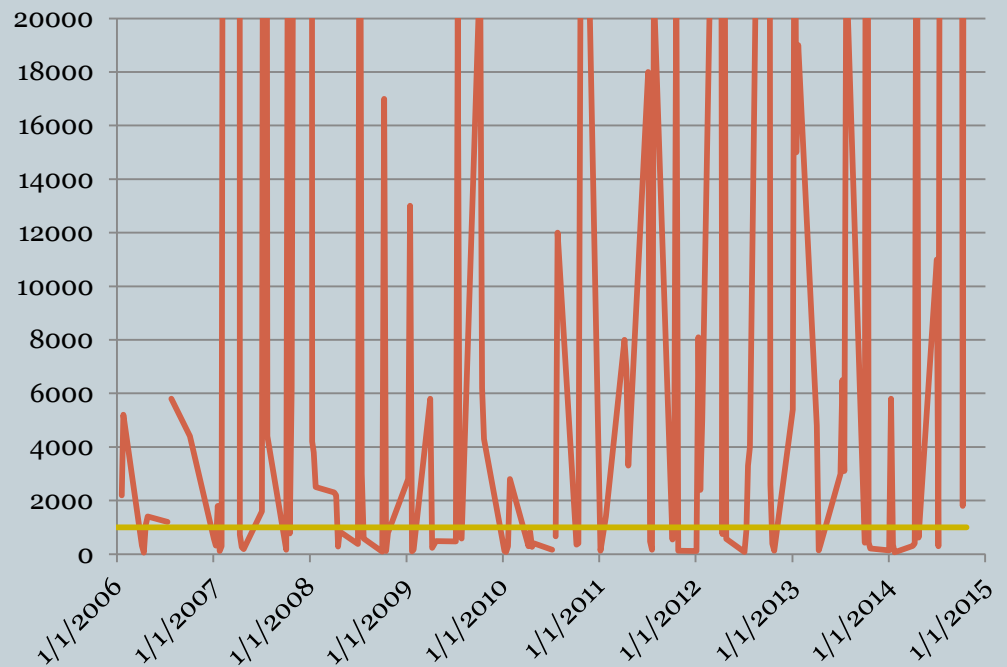
- EPD's Rapid Habitat Assessment Protocols
- Range from "Poor" (28 of 200) to "Sub-Optimal" (153 of 200)
- Length-averaged score of "Marginal" (86 of 200) for the studied streams

# Summary of Watershed Conditions, cont.



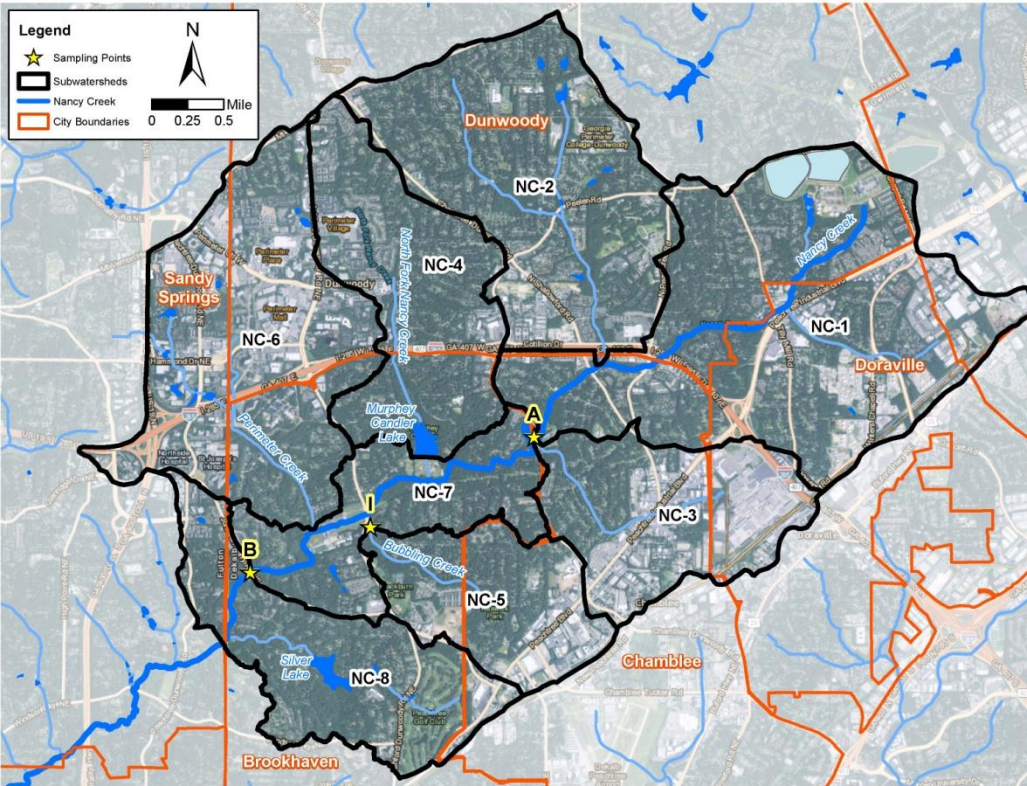
- Fecal coliform bacteria
  - median is 1,700 col/100mL
  - State impaired water
- Drainage Complaints
- Floodplains

**Nancy Creek at Chamblee  
Dunwoody Fecal Coliform**

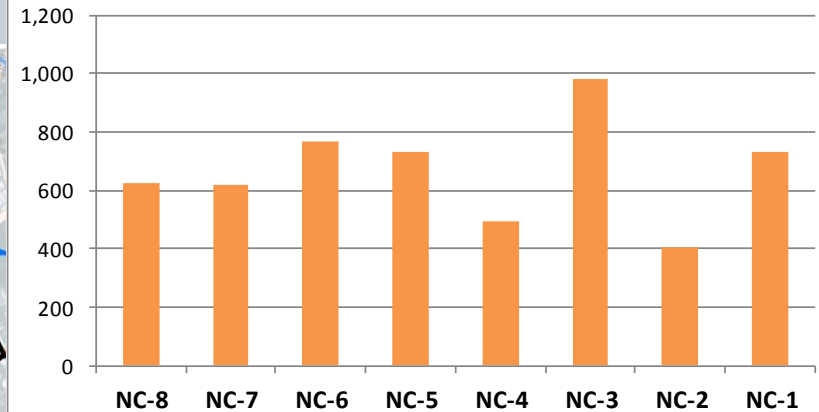




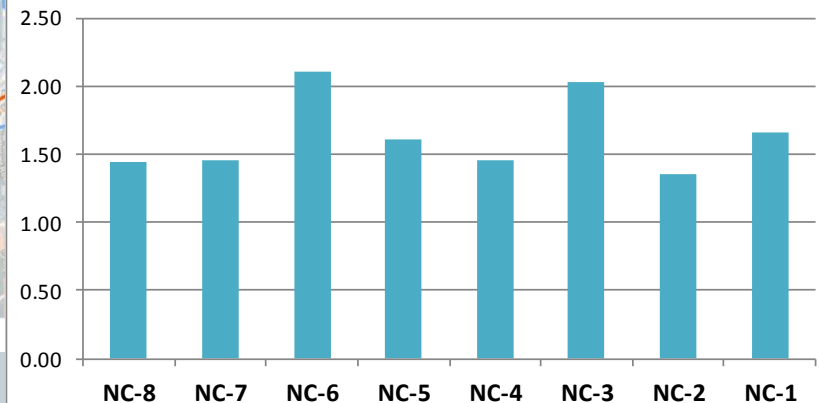
# Preliminary Watershed Modeling



## Normalized Annual TSS (lb/acre/year)



## Runoff (cfs/sq mi/year)





# Evaluate Murphey Candler Lake

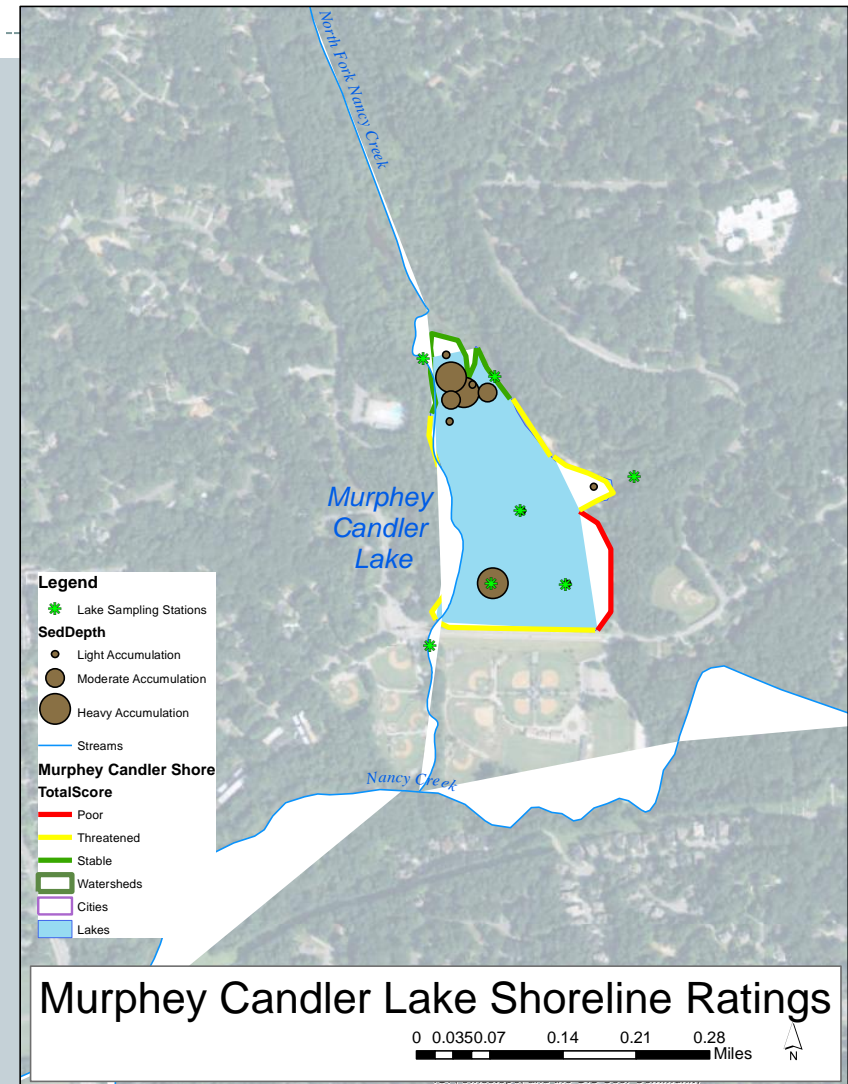


- Shoreline Condition Ratings
- Water quality
  - Fecal
  - Phosphorus
  - secchi depth
  - chlorophyll a
- Depth of water & depth of sediment



# Summary of Murphey Candler Conditions

- Chlorophyll levels are high, lake is in the “eutrophic” range
- Shoreline ratings range from “poor” to “stable”
- Length weighted average is “threatened”
- Water depth ranges from 0.75 ft to 9 ft
- Sediment depth ranges from 0.5 ft to 5 ft



# Next Steps



- Identify solutions based on problems, impairments, and threats
- Continue work with the stakeholders group
- Support City with early grant applications
- Public meeting Round #2
- Draft Watershed Improvement Plan
- Final Watershed Improvement Plan

# Public Input Process



- Talk to us tonight
- Write comments on numbered cards with numbered stickers
- Talk to our team members tonight or send an email to arrange a time to talk
  - [kim@sustainablewaterplanning.com](mailto:kim@sustainablewaterplanning.com)